

PTO/SB/08A (08-03)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				APPLICATION NUMBER	10/714,088
				FILING DATE	11/14/2003
				FIRST NAMED INVENTOR	Sreenivasan et al.
				Group Art Unit	1762
				Examiner Name	Marianne Padgett
				Attorney Docket Number	P69-11-03
Sheet	1	of	2		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ²	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
<i>MS</i>	E1	5,669,303		Maracas et al.	9/23/1997	
	E2	2004/0007799	A1	Choi et al.	1/15/2004	
	E3	2004/0021866	A1	Watts et al.	2/5/2004	
	E4	2004/0022888	A1	Sreenivasan et al.	2/5/2004	
	E5	2004/0124586	A1	Sreenivasan et al.	7/1/2004	
	E6	2003/0080472	A1	Chou	5/1/2003	
	E7	2003/0034329	A1	Chou	2/20/2003	
	E8	2002/0042027	A1	Chou et al.	4/11/2002	
	E9	2004/0250945	A1	Zheng et al.	12/16/2004	
	E10	2005/0037143	A1	Chou et al.	2/17/2005	
	E11	6,900,881		Sreenivasan et al.	5/31/2005	
	E12	6,908,861	B2	Sreenivasan et al.	6/21/2005	
	E13	6,916,584	B2	Sreenivasan et al.	7/12/2005	
<i>MS</i>	E14	2003/0062334	A1	Lee et al.	4/3/2003	
	E15	2005/0160011	A1	Sreenivasan et al.	7/21/2005	

Examiner Signature	<i>M. Padgett</i>	Date Considered	10/2/05
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* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

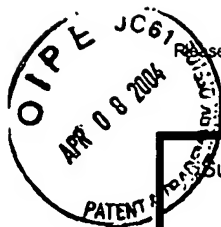
<i>[Signature]</i>	E16	APPLICATION NO. 11/101,139, naming Inventors Shackleton et al., entitled System for Controlling a Volume of Material on a Mold, filed 4/7/2005	
<i>[Signature]</i>	E17	APPLICATION NO. 11/101,140, naming Inventors McMackin, entitled Method for Fast Filling of Templates for Imprint Lithography Using on Template Dispense, filed 4/7/2005	
	E18	NERAG.COM RETRO SEARCH, Fluid Dispensing, 6/4/2005 <i>? Website not a title</i>	
<i>[Signature]</i>	E19	APPLICATION NO. 11/126,946, naming Inventors Choi et al., entitled Formation of Discontinuous Films During an Imprint Lithography Process, filed 5/11/2005	
<i>[Signature]</i>	E20	APPLICATION NO. 11/127,041, naming Inventors Sreenivasan et al., entitled Step and Repeat Imprint Lithography Processes, filed 5/11/2005	
<i>[Signature]</i>	E21	APPLICATION NO. 11/127,060, naming Inventors Sreenivasan et al., entitled Step and Repeat Imprint Lithography Systems, filed 5/11/2005	
<i>[Signature]</i>	E22	APPLICATION NO. 11/143,092, naming Inventors Lad et al., entitled Fluid Dispensing and Drop-on-Demand Dispensing for Nano-Scale Manufacturing, filed 6/2/2005	

Examiner Signature	<i>[Signature]</i>	Date Considered	10/13/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	10/714,088	
			Filing Date	11/14/2003	
			First Named Inventor	McMackin et al.	
			Group Art Unit	Unassigned 1762	
			Examiner Name	Unassigned Padgett	
Sheet	1	of	6	Attorney Docket Number	P69/MII-29-11-03

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (If known)			
	B1	3,827,027		Heisler	04-30-1974	
	B2	3,807,029		Troeger	04-30-1974	
	B3	3,811,665		Seelig	05-21-1974	
	B4	4,062,600		Wyse	12-13-1977	
	B5	4,098,001		Watson	07-04-1978	
	B6	4,155,169		Drake et al.	05-22-1979	
	B7	4,202,107		Watson	05-13-1980	
	B8	4,337,579		De Fazio	07-06-1982	
	B9	4,355,469		Nevins et al.	10-26-1982	
	B10	4,414,750		De Fazio	11-15-1983	
	B11	4,440,804		Milgram	04-03-1984	
	B12	4,544,572		Sandvig et al.	10-01-1985	
	B13	4,610,442		Oku et al.	09-09-1986	
	B14	4,694,703		Routson	09-22-1987	
	B15	4,763,886		Takei	08-16-1988	
	B16	4,929,083		Brunner	05-29-1990	
	B17	4,959,252		Bonnebat et al.	09-25-1990	
	B18	5,072,126		Progler	12-10-1991	
	B19	5,110,514		Soane	05-05-1992	
	B20	5,126,006		Cronin et al.	06-30-1992	
	B21	5,204,739		Domenicali	04-20-1993	
	B22	5,240,550		Boehnke et al.	08-31-1993	
	B23	5,348,616		Hartman et al.	09-20-1994	
	B24	5,392,123		Marcus et al.	02-21-1995	
	B25	5,452,090		Progler et al.	09-19-1995	
	B26	5,512,131		Kumar et al.	04-30-1996	
	B27	5,515,167		Ledger et al.	05-07-1996	
	B28	5,545,367		Bae et al.	08-13-1996	
	B29	5,566,584		Briganti	10-22-1996	
	B30	5,633,505		Chung et al.	05-27-1997	
	B31	5,723,176		Keyworth et al.	03-03-1998	
	B32	5,753,014		Van Rijn	05-19-1998	
	B33	5,760,500		Kondo et al.	06-02-1998	
	B34	5,802,914		Fassler et al.	09-08-1998	
Examiner Signature					Date Considered	8/11/05

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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

2

of

6

Complete if Known

Application Number

10/714.088

Filing Date

11/14/2003

First Named Inventor

McMackin et al.

Group Art Unit

Unassigned

Examiner Name

Unassigned

Attorney Docket Number

P69/MII-29-11-03

U.S. PATENT DOCUMENTS

[illegible]

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Substitute for form 1449A/PTO <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin: 0;">(use as many sheets as necessary)</p>				Complete if Known	
		Application Number	10/714,088		
		Filing Date	11/14/2003		
		First Named Inventor	McMackin et al.		
		Group Art Unit	Unassigned		
		Examiner Name	Unassigned		
		Attorney Docket Number	P69/MII-29-11-03		
Sheet	3	of	6		

FOREIGN PATENT DOCUMENTS								
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		Office ²	Number ³	Kind Code ⁴ (if known)				
B53 B54 B55 B56 B57 B58 B59 B60 B61 B62 B63	B53	DE	✓ 2800476		Lamprecht et al.	07-13-1978	In German	
	B54	WO	✓ 92/17883		Olsson	10-15-1982		
	B55	EP	✓ 244884		Ponjee	03-03-1987		
	B56	EP	✓ 733455		Anderhub et al.	09-25-1996	In German	
	B57	DE	✓ 19648844		Muller et al.	09-18-1997	" "	
	B58	WO	✓ 98/10121		Olsson et al.	03-12-1998		
	B59	WO	✓ 99/45753		Wikstrom	09-10-1999		
	B60	WO	✓ 99/63535		Olsson	12-09-1999		
	B61	WO	✓ 00/54107		Willson et al.	09-14-2000		
	B62	WO	✓ 01/33232 A3		Andeen et al.	05-10-2001		
	B63	WO	✓ 01/33300		Choi	05-10-2001		
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		Group Art Unit	Unassigned
		Examiner Name	Unassigned <i>Palgott</i>
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>MSP</i>	B64	STEWART, "A Platform with Six Degrees of Freedom," Proc. of Inst. Mech. Engrs., 1965 pp. 371-378, vol. 180 pt. 1, no. 15. <i>no more</i>	
<i>MSP</i>	B65	PAROS et al., "How to Design Flexure Hinges," Machine Design, Nov. 25, 1965, pp. 151-156.	
<i>MSP</i>	B66	RAIBERT et al., "Hybrid Position/Force Control of Manipulators," Transactions of the ASME, Journal of Dynamic Systems, Measurement and Control, June 1981, pp. 126-133, vol. 102.	
<i>MSP</i>	B67	HOGAN, "Impedance Control: An Approach to Manipulation," Journal of Dynamic Systems, Measurement and Control, March 1985, pp. 1-7, vol. 107.	
<i>MSP</i>	B68	COWIE, "Polymers: Chemistry and Physics of Modern Materials," 1991, pp. 408-409, 2 nd Ed, Chapman and Hall, a division of Routledge, Chapman and Hall, Inc., 29 West 35 th Street, NY, NY 10001-2291. <i>no more</i>	
<i>MSP</i>	B69	HOLLIS et al., "A Six-Degree-of-Freedom Magnetically Levitated Variable Compliance Fine Motion Wrist: Design, Modeling and Control," IEEE Transactions on Robotics and Automation, 1991, pp. 320-332, vol. 7, no. 3. <i>no more</i>	
<i>MSP</i>	B70	TOMITA et al., "A 6-Axes Motion Control Method for Parallel-Linkage-Type Fine Motion Stage," Journal of Japan Society of Precision Engineering, 1992, pp. 118-124. <i>no more - only abstract in English</i>	
<i>MSP</i>	B71	SLOCUM, "Precision Machine Design: Macromachine Design Philosophy and its Applicability to the Design of Micromachines," Micro Electro Mechanical Systems, 1992, pp. 37-42. <i>Feb.</i>	
<i>MSP</i>	B72	ARAI et al., "Calibration and Basic Motion of a Micro Hand Module," Proc. of IEEE, 1993, pp. 1660-1665. <i>no more</i>	
<i>MSP</i>	B73	PENG et al., "Compliant Motion Control of Kinematically Redundant Manipulators," IEEE Transactions on Robotics and Automation, December 1993, pp. 831-837, vol. 9, no. 6.	
<i>MSP</i>	B74	HASHIMOTO et al., "Design and Characteristics of Parallel Link Compliant Wrist," IEEE International Conference on Robotics and Automation, 1994, pp. 2457-2462.	

Examiner Signature	<i>M. L. Palgott</i>	Date Considered	8/11/05
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			First Named Inventor	McMackin et al.	
			Group Art Unit	Unassigned	
			Examiner Name	Unassigned <i>Palgett</i>	
Sheet	5	of	6	Attorney Docket Number	P69/MII-29-11-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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<i>MSP</i>	B75	MERLET, "Parallel Manipulators: State of the Art Perspectives," Advanced Robotics, 1994, pp. 589-596, vol. 8. <i>no month</i>	
<i>MSP</i>	B76	ANANTHASURESH et al., "Strategies for Systematic Synthesis of Compliant MEMS," ASME, DSC-vol. 55-2, Dynamic Systems and Control, 1994, pp. 677-686, vol. 2. <i>no month</i>	
<i>MSP</i>	B77	HOWELL et al., "Loop-Closure Theory for the Analysis and Synthesis of Compliant Mechanisms," Journal of Mechanical Design, March 1996, pp. 121-125, vol. 118.	
<i>MSP</i>	B78	PERNETTE et al., "Design of Parallel Robots in Microrobotics," Robotica, July-August 1997, pp. 417-420, vol. 15, no. 4.	
<i>MSP</i>	B79	MITTAL et al., "Precision Motion Control of Magnetic Suspension Actuator Using a Robust Nonlinear Compensation Scheme," IEEE/ASME Transactions on Mechatronics, Dec. 1997, pp. 268-280, vol. 2, no. 4.	
<i>MSP</i>	B80	LEE et al., "An Ultraprecision Stage for Alignment of Wafers in Advanced Microlithography," Precision Engineering, 1997, pp. 113-122, vol. 21, Elsevier Science Inc., 655 Avenue of the Americas, NY, NY 10010. <i>Sept/Dec.</i>	
<i>MSP</i>	B81	KANETOMO et al., "Robot for Use in Ultrahigh Vacuum," Solid State Tech., August 1997, pp. 63-64, 69-72.	
<i>MSP</i>	B82	KOSEKI et al., "Design and Accuracy Evaluation of High-Speed and High-Precision Parallel Mechanism," Proc. of the 1998 IEEE, Intl. Conf. on Robotics & Automation, May 1998, pp. 1340-1345, Leuven, Belgium.	
<i>MSP</i>	B83	KIM et al., "High Precision Magnetic Levitation Stage for Photolithography," Precision Engineering, 1998, pp. 66-77, vol. 22, Elsevier Science Inc., 655 Avenue of the Americas, NY, NY 10010. <i>no month</i>	
<i>MSP</i>	B84	MANSKY et al., "Large-Area Domain Alignment in Block Copolymer Thin Films Using Electric Fields," Macromolecules, 1998, pp. 4399-4401, vol. 31. <i>no month</i>	
<i>MSP</i>	B85	WANG et al., "Passive Compliance Versus Active Compliance in Robot-Based Automated Assembly Systems," Industrial Robot, 1998, pp. 48-57, vol. 25, no. 1, MCB University Press. <i>no month</i>	

Examiner Signature	<i>Therese R. Palgett</i>	Date Considered	8/11/05
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			Group Art Unit	Unassigned	
			Examiner Name	Unassigned <i>Pedgett</i>	
Sheet	6	of	6	Attorney Docket Number	P69/MII-29-11-03

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Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>HP</i>	B86	TAJBAKSH et al., "Three-Degree-of-Freedom Optic Mount for Extreme Ultraviolet Lithography," ASPE, 1998, pp. 359-362, vol. 18. <i>no month</i>	
<i>HP</i>	B87	LEE et al., "Ultra Precision Positioning System for Servo Motor-Piezo Actuator Using the Dual Servo Loop and Digital Filter Implementation," ASPE, 1998, pp. 287-290, vol. 18. <i>no month</i>	
<i>HP</i>	B88	OHYA et al., "Development of 3-DOF Finger Module for Micro Manipulation," Proc. of the 1999 IEEE/RSJ, Intl. Conf. on Intelligent Robots and Systems, 1999, pp. 894-899. <i>no month</i>	
<i>HP</i>	B89	TANIKAWA et al., "Development of Small-Sized 3 DOF Finger Module in Micro Hand for Micro Manipulation," Proc. of the IEEE/RSJ, Intl. Conf. on Intelligent Robots and Systems, 1999, pp. 876-881. <i>no month</i>	
<i>HP</i>	B90	RUCHHOEFT et al., "Patterning Curved Surfaces: Template Generation by Ion Beam Proximity Lithography and Relief Transfer by Step and Flash Imprint Lithography," Journal of Vacuum Science and Technology, 1999, pp. 2965-2982, vol. 17. <i>no month</i>	

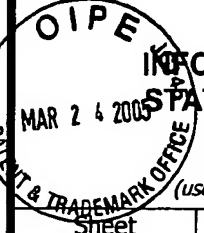
Examiner Signature	<i>[Signature]</i>	Date Considered	<i>4/8/8/16/05</i>
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¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO				Complete if Known	
				APPLICATION NUMBER	10/714,088
				FILING DATE	11/14/2003
				FIRST NAMED INVENTOR	McMackin et al.
				Group Art Unit	1762
				Examiner Name	Padgett, Marianne
				Attorney Docket Number	P69-11-03
Sheet	1	of	6		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

<i>[Signature]</i>	C1	5,772,905		Chou	6/30/1998	
	C2	6,309,580	B1	Chou	10/30/2001	
	C3	6,391,217	B2	Schaffer et al.	5/21/2002	
<i>[Signature]</i>	C4	6,696,220	B2	Bailey et al.	2/24/2004	
<i>[Signature]</i>	C5	10/760,821		Sreenivasan et al.	1/20/2004	
<i>[Signature]</i>	C6	10/788,700		Sreenivasan et al.	2/27/2004	
<i>[Signature]</i>	C7	2002/0177319	A1	Chou	11/28/2002	
	C8	6,713,238	B1	Chou et al.	3/30/2004	
	C9	2004/0065976	A1	Sreenivasan et al.	4/8/2004	
	C10	6,646,662	B1	Nebashi et al.	11/11/2003	
	C11	6,776,094	B1	Whitesides et al.	8/17/2004	
	C12	6,518,189	B1	Chou	2/11/2003	
	C13	2002/0132482	A1	Chou	9/19/2002	
	C14	2002/0167117	A1	Chou	11/14/2002	
	C15	6,482,742	B1	Chou	11/19/2002	
	C16	2003/0080471	A1	Chou	5/1/2003	
	C17	2004/0036201	A1	Chou et al.	2/26/2004	
<i>[Signature]</i>	C18	2004/0192041	A1	Jeong et al.	9/30/2004	

Examiner Signature	<i>[Signature]</i>	Date Considered	8/11/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				APPLICATION NUMBER	10/714,088
				FILING DATE	11/14/2003
				FIRST NAMED INVENTOR	McMackin et al.
				Group Art Unit	1762
				Examiner Name	Padgett, Marianne
Attorney Docket Number	P69-11-03				
Sheet	2	of	6		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			

	C19	6,828,244	B2	Chou	12/7/2004	
	C20	6,809,356	B2	Chou	10/26/2004	
	C21	2004/0197843	A1	Chou et al.	10/7/2004	
	C22	2004/0156108	A1	Chou et al.	8/12/2004	
	C23	2004/0137734	A1	Chou et al.	7/15/2004	
	C24	2004/0131718	A1	Chou et al.	7/8/2004	
	C25	2004/0118809	A1	Chou et al.	6/24/2004	
	C26	2004/0046288	A1	Chou	3/11/2004	
	C27	2003/0080472	A1	Chou	5/1/2003	
	C28	2003/0034329	A1	Chou	2/20/2003	
	C29	2002/0042027	A1	Chou et al.	4/11/2002	
	C30	6,580,172	B2	Mancini et al.	6/17/2003	
	C31	10/706,537		Sreenivasan et al.	11/12/2003	
	C32	10/858,566		Truskett et al.	6/1/2004	
	C33	11/005,742		McMackin et al.	12/7/2004	abandon
	C34	11/006,363		McMackin et al.	12/7/2004	
	C35	4,512,848		Deckman et al.	4/23/1985	
	C36	6,517,995	B1	Jacobenson et al.	2/11/2003	

Examiner Signature	<i>[Signature]</i>	Date Considered	8/16/05
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				Group Art Unit	1762	
				Examiner Name	Padgett, Marianne	
Attorney Docket Number	P69-11-03					
Sheet	4	of	6			

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office	Number ⁴	Kind Code ⁵ (if known)				

<i>MSPP</i>	C42	WO	2004/016406		Sreenivasan	2/26/2004		
<i>MSPP</i>	C43	WO	00/21689		Chou et al.	4/20/2000		
<i>MSPP</i>	C44	JP	02-92603		Kurikawa et al.	4/3/1990	<i>See trans.</i>	
<i>MSPP</i>	C45	JP	02-24848		Kamio	1/26/1990	<i>See trans</i>	
<i>MSPP</i>	C46	WO	01/47003		Steiner et al.	6/28/2001		
<i>MSPP</i>	C47	WO	02/07199		Chou	1/24/2002		
<i>MSPP</i>	C48	WO	2004/114016		Chou et al.	12/29/2004		
<i>MSPP</i>	C49	WO	99/05724		Chou et al.	2/4/1999		
<i>MSPP</i>	C50	WO	03/010289		Chou et al.	2/6/2003		
<i>MSPP</i>	C51	WO	03/079416		Chou	9/25/2003		
<i>MSPP</i>	C52	WO	03/099536		Chou et al.	12/4/2003		
<i>MSPP</i>	C53	WO	2004/013693		Watts et al.	2/12/2004		

Examiner Signature	<i>M. Padgett</i>	Date Considered	8/11/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				APPLICATION NUMBER	10/714,088
				FILING DATE	11/14/2003
				FIRST NAMED INVENTOR	McMackin et al.
				Group Art Unit	1762
				Examiner Name	Padgett, Marianne
Sheet <u>5</u> of <u>6</u>				Attorney Docket Number	P69-11-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

<i>MSP</i>	C54	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, <u>11/1/2000</u>	
<i>MSP</i>	C55	Johnson et al., Advances in Step and Flash Imprint Lithography, SPIE Microlithography Conference, <u>2/23/2003</u>	
<i>MSP</i>	C56	Heidari, Nanoimprint Lithography at the 6 in. Wafer Scale, J. Vac. Sci. Technol. B 18(6), pp. 3557 - 3560, <u>11/1/2000</u>	
<i>MSP</i>	C57	Translation of Japanese Patent 02-92603 <i>April 3, 1990 to Kurikawa et al</i>	
<i>MSP</i>	C58	Translation of Japanese Patent 02-24848 <i>Jan. 26, 1990 Kramio has blacked out words</i>	
<i>MSP</i>	C59	Chou et al., Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Col. 417, (June 2002), pp. 835-837, <u>6/1/2002</u>	
<i>MSP</i>	C60	Chou et al., Nanoimprint Lithography, Journal of Vacuum Science Technolgy B 14(16), pp. 4129-4138, <u>11/1/1996</u>	
<i>MSP</i>	C61	Colburn et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001	
<i>MSP</i>	C62	Colburn et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001	

Examiner Signature	<i>M. Padgett</i>	Date Considered	<i>8/14/05</i>
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				APPLICATION NUMBER	10/714,088
				FILING DATE	11/14/2003
				FIRST NAMED INVENTOR	McMackin et al.
				Group Art Unit	1762
Sheet	6	of	6	Examiner Name	Padgett, Marianne
				Attorney Docket Number	P69-11-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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	C63	Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001	
	C64	Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000	
	C65	Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers	

Examiner Signature		Date Considered	8/11/05
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

Complete if Known

Application Number	10/714,088
Filing Date	11/14/2003
First Named Inventor	McMackin et al.
Group Art Unit	Unassigned 1762
Examiner Name	Unassigned P. J. [Signature]
Attorney Docket Number	P69/MII-29-11-03

U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
[Signature]	A1	4,267,212		Sakawaki	05-12-1981	
	A2	4,451,507		Beltz et al.	05-29-1984	
	A3	4,731,155		Napoli et al.	03-15-1988	
	A4	5,425,848		Haisma et al.	06-20-1995	
	A5	5,480,047		Tanigawa et al.	01-02-1996	
	A6	5,723,176		Keyworth et al.	03-03-1998	
	A7	5,725,788		Maracas et al.	03-10-1998	
	A8	5,747,102		Smith et al.	05-05-1998	
	A9	5,772,905		Chou	06-30-1998	
	A10	5,776,748		Singhvi et al.	07-07-1998	
	A11	5,900,160		Whitesides et al.	05-04-1999	
	A12	5,912,049		Shirley	06-15-1999	
	A13	6,074,827		Nelson et al.	06-13-2000	
	A14	6,180,239		Whitesides et al.	01-30-2001	
	A15	6,334,960		Willson et al.	01-01-2002	
	A16	6,355,198		Kim et al.	03-12-2002	
	A17	6,361,831		Sato et al.	03-26-2002	
	A18	6,518,168		Clem et al.	02-11-2003	
Examiner Signature		[Signature]			Date Considered	8/16/05

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²Unique citation designation number. ³See attached Kinds of U.S. Patent Documents. ⁴Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 5

Complete if Known

Application Number	10/714,088
Filing Date	11/14/2003
First Named Inventor	McMackin et al.
Group Art Unit	Unassigned <i>1702</i>
Examiner Name	Unassigned <i>Polyott</i>
Attorney Docket Number	P69/MII-29-11-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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<i>MLP</i>	A21	Gokan et al., "Dry Etch Resistance of Organic Materials," J. Electrochem. Soc. 130:1, 143-146 (Jan. 1983)	
<i>MLP</i>	A22	LIN, "Multi-Layer Resist Systems", Introduction of Microlithography," American Chemical Society, 1983, pp. 287-350, IBM T.J. Watson Research Center, Yorktown Heights, New York 10598.	
<i>MLP</i>	A23	KRUG et al., "Fine Patterning of Thin Sol-Gel Films," Journal of Non-Crystalline Solids, 1992, pp. 447-450, vol. 147 & 148. <i>no month</i>	
<i>MLP</i>	A24	Kotachi et al., "Si-Containing Positive Resist for ArF Laser Lithography," J. Photopolymer Sci. Technol. 8(4) 615-622, 1995. <i>no month</i>	
<i>MLP</i>	A25	Krauss et al., "Fabrication of Nanodevices Using Sub-25nm Imprint Lithography," Appl. Phys. Lett 67(21), 3114-3116, 1995 <i>no month</i>	
<i>MLP</i>	A26	CHOU et al., "Imprint of Sub-25 nm Vias and Trenches in Polymers," Applied Physics Letters, November 20, 1995, pp. 3114-3116, vol. 67(21).	
<i>MLP</i>	A27	CHOU et al., "Imprint Lithography with 25-Nanometer Resolution," Science, Apr. 5, 1996, pp. 85-87, vol. 272.	
<i>MLP</i>	A28	HAISMA et al., "Mold-Assisted Nanolithography: A Process for Reliable Pattern Replication," Journal of Vacuum Science and Technology, Nov/Dec 1996, pp. 4124-4128, vol. B 14(6).	
<i>MLP</i>	A29	CHOU et al., "Imprint Lithography with Sub-10nm Feature Size and High Throughput," Microelectronic Engineering, 1997, pp. 237-240, vol. 35. <i>no month</i>	
<i>MLP</i>	A30	SCHEER et al., "Problems of the Nanoimprinting Technique for Nanometer Scale Pattern Definition," Journal of Vacuum Science and Technology, Nov/Dec 1998, pp. 3917-3921, vol. B 16(6).	
<i>MLP</i>	A31	XIA et al., "Soft Lithography," Annu. Rev. Mater. Sci., 1998, pp. 153-184, vol. 28. <i>no month</i>	

Examiner Signature	<i>Michael Polyott</i>	Date Considered	<i>8/11/05</i>
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INFORMATION DISCLOSURE
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Sheet 4 of 5

Application Number	10/714,088
Filing Date	11/14/2003
First Named Inventor	McMackin et al.
Group Art Unit	Unassigned <i>1702</i>
Examiner Name	Unassigned <i>Pedgett</i>
Attorney Docket Number	P69/MII-29-11-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cita No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>MSP</i>	A32	XIA et al., "Soft Lithography," Agnew. Chem. Int. Ed., 1998, pp. 550-575, vol. 37. <i>no month</i>	
<i>MSP</i>	A33	WU et al., "Large Area High Density Quantized Magnetic Disks Fabricated Using Nanoimprint Lithography," Journal of Vacuum Science and Technology, Nov/Dec 1998, pp. 3825-3829, vol. B 16(6).	
<i>MSP</i>	A34	COLBURN. et al., "Step and Flash Imprint Lithography: A New Approach to High-Resolution Patterning", Proc. of SPIE, 1999, pp. 379-389, vol. 3676. <i>no month</i>	
<i>MSP</i>	A35	CHOU et al., "Lithographically-Induced Self Assembly of Periodic Polymer Micropillar Arrays," Journal of Vacuum Science and Technology, Nov/Dec 1999, pp. 3197-3202, vol. B 17(6).	
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<i>MSP</i>	A37	CHOU, "Nanoimprint Lithography and Lithographically Induced Self-Assembly," MRS Bulletin, July 2001, pp. 512-517. <i>part-illegible</i>	
<i>MSP</i>	A38	MIRKIN et al., "Emerging Methods for Micro-and Nanofabrication," MRS Bulletin, July 2001, pp. 506-509	
<i>MSP</i>	A39	CHOI et al., "High Precision Orientation Alignment and Gap Control Stages for Imprint Lithography Processes," U.S. Patent Application 09/698,317, Filed with USPTO on October 27, 2000.. <i>now PNG 813087</i>	
<i>MSP</i>	A40	SREENIVASAN et al., "High-Resolution Overlay Alignment Methods and Systems for Imprint Lithography," U.S. Patent Application 09/907,512, Filed with USPTO on July 16, 2001. <i>now 6,921,165</i>	
<i>MSP</i>	A41	CHOI et al., "Method and System of Automatic Fluid Dispensing for Imprint Lithography Processes," U.S. Patent Application 09/908,455, Filed with USPTO on July 17, 2001. <i>= 2002/0094496 pending</i>	
<i>MSP</i>	A42	CHOI et al., "Methods for High-Precision Gap and Orientation Sensing Between a Transparent Template and Substrate for Imprint Lithography," U.S. Patent Application 09/920,341, Filed with USPTO on August 1, 2001. <i>= 2002, 009712, Allowed</i>	

Examiner Signature	<i>M. R. Pedgett</i>	Date Considered	<i>8/11/05</i>
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Application Number	10/714,088
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First Named Inventor	McMackin et al.
Group Art Unit	Unassigned
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Attorney Docket Number	P69/MII-29-11-03

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<i>My</i>	A43	Nguyen, A. Q., "Asymmetric Fluid-Structure Dynamics in Nanoscale Imprint Lithography," University of Texas at Austin, August 2001. <i>thesis</i>	
<i>My</i>	A44	CHOI et al., "Flexure Based Macro Motion Translation Stage," U.S. Patent Application 09/934,248, Filed with USPTO on August 21, 2001. <i>= 20020150398, pending</i>	
	A45	BAILEY et al., "Template for Room Temperature Low Pressure Micro- and Nano-Imprint Lithography," U.S. Patent Application 09/976,681, Filed with USPTO on October 12, 2001. <i>now 6,696,220</i>	
	A46	VOISIN, "Methods of Manufacturing a Lithography Template," U.S. Patent Application 10/136,188, Filed with USPTO on May 1, 2002. <i>= 2003/0205657, pending</i>	
	A47	WILLSON et al., "Method and System for Fabricating Nanoscale Patterns in Light Curable Compositions Using an Electric Field," U.S. Patent Application 09/905,718, Filed with USPTO on May 16, 2002. <i>= 2003/0215577, allowed</i>	
	A48	WATTS et al., "System and Method for Dispensing Liquids," U.S. Patent Application 10/191,749, Filed with USPTO July 9, 2002. <i>= 2003/0215577 - 1552661, allowed</i>	
	A49	SREENIVASAN et al., "Method and System for Imprint Lithography Using an Electric Field," U.S. Patent Application 10/194,410, Filed with USPTO July 11, 2002. <i>now PN. 6,908,861</i>	
	A50	SREENIVASAN et al., "Step and Repeat Imprint Lithography Systems," U.S. Patent Application 10/194,414, Filed with USPTO July 11, 2002. <i>now PN. 6,900,887</i>	
<i>My</i>	A51	SREENIVASAN et al., "Step and Repeat Imprint Lithography Processes," U.S. Patent Application 10/194,991, Filed with USPTO July 11, 2002. <i>= 2004/0124866, allowed</i>	

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SignatureDate
Considered

8/11/05

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